



## Mehmood Ali

### CONTACT

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in <https://www.linkedin.com/in/mayhemood>

👤 <https://github.com/mayhemood> (GitHub)

### WORK EXPERIENCE

8 NOV 2023 – 9 APR 2024 Karachi, Pakistan

#### Intern Full-Stack Developer Filter Tutor

1. **Frontend:** Developing responsive user interfaces with React.js and managing state using Redux.
2. **Backend:** Creating robust server-side logic with Node.js and Express, implementing RESTful APIs.
3. **Database:** Designing and optimizing PostgreSQL databases for efficient data storage and retrieval.
4. **Templating:** Utilizing EJS for dynamic server-side templating, enhancing code modularity.
5. **UI Design:** Developing visually appealing, responsive interfaces with HTML and CSS.
6. **Feature Development:** Collaborating on new features, integrating external APIs for enhanced functionality.
7. **Security:** Implementing best practices for input validation and authentication, conducting regular security audits.
8. **Version Control and Deployment:** Using Git for version control.
9. **Optimization:** Continuously optimizing performance with speed enhancements and lazy loading.
10. **Documentation:** Maintaining comprehensive documentation for codebase, APIs, and technical processes.
11. **Continuous Learning:** Staying updated on emerging technologies and industry best practices.

9 OCT 2023 – 14 OCT 2023 Hamburg, Germany

#### Tutor of Lernprojekt (LSL2) HAW Hamburg

1. Organizing the Lernprojekt for Winter Semester 2023/24 for more than 100 students.
2. Developing the task using LEGO Spike Bot.
3. Managing the Lernprojekt.
4. Analyzing the progress of the students.

### EDUCATION AND TRAINING

1 SEP 2021 – CURRENT Hamburg, Germany

#### B.Sc Information Engineering HAW Hamburg

Software Construction 1 (C Programming) • Software Construction 2 (OOP with Java) • Software Engineering • Databases(MySQL) • Microcontrollers • Algorithms and Data Structures • Digital Circuits • Electrical Engineering (Circuit Analysis) • Electronics 1 - 2 • Mathematics 1 - 2 • Signals and Systems • Economics & Management • Scientific and Project Work • Learning and Study Methods

**Address** Stiftstraße 69, 20999, Hamburg, Germany |

**Field of study** Information and Communication Technologies

### DIGITAL SKILLS

#### FULL-STACK DEVELOPMENT TOOLS AND SKILLS

Javascript ES6 | React.js | Node.js | Express.js | mySQL | PostgreSQL | Platform : AWS Cloud | Deployment on HEROKU | Bash Command Line | Git, GitHub and Version Control | CSS 3 | HTML 5 | EJS | REST | APIs

#### OTHER TOOLS AND SKILLS

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | FreeRTOS | Linux (Terminal Commands, Bash/Shell) | C(Embedded / Application) | JAVA (OOP) | Team Work | Communication

## PROJECTS

### ReactJS Apps

1. **A Keeper App** (like Google Keep Notes) made using ReactJS. User can add or delete a note. [Live Preview](#) and [GitHub Repo](#).
2. **A To-Do List** made using ReactJS. User can add a to do task and click on the task to delete it. [Live Preview](#) and [GitHub Repo](#).

### Games using JavaScript

1. **Simon Game** that randomly choses a color pattern for the player to choose on screen, and increases the length of the pattern with the increasing level. Made using JavaScript + HTML + CSS. [Live Preview](#) and [GitHub Repo](#).
2. **A Drum Kit** that detects keypress from the Keyboard or a button pressed on the website to play the respective sound. This includes JavaScript, CSS, HTML. [Live Preview](#) and [GitHub Repo](#).
3. **Dice Game** that generates random dice numbers for 2 players and displays the result. [Live Preview](#) and [GitHub Repo](#).

**13 MAR 2023 – 18 MAR 2023**

### Lernprojekt Summer Semester 2023

Winner of the Lernprojekt Summer Semester 2023 organized by HAW Hamburg.

1. Building technical solution to a given problem using LEGO Spike Bot.
2. A hands-on experience in Project Management.
3. Communication and Teamwork.

## CERTIFICATIONS AND COURSES

### The Complete 2024 Web Development Bootcamp - Udemy

A Full-Stack Web Development course that includes HTML5, CSS3, Javascript, Node, React, PostgreSQL, Web3 and DApps.

### Software Engineering - HAW Hamburg

Requirement Analysis, Modeling Use Cases, Design Patterns, UML Modelling, Testing, RESTful Services.

### Object Oriented Programming JAVA - HAW Hamburg

Classes, Objects, Inheritance, Libraries, Abstract Elements, Exception Handling, GUI, Object-Oriented Design.

### C (Embedded / Application) - HAW Hamburg

Data Types, Functions, Arrays, Pointers, Structures, Dynamic memory handling, • file I/O, Using C for Embedded Systems

### Databases - HAW Hamburg

Relational Databases, Database Design, SQL, MySQL, JDBC.

### Algorithms and Data Structures - HAW Hamburg

Stacks and Queues, Sorting Algorithms, Binary Search Trees, Priority Queues, Hashing, Data Compression.

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Sindhi | Urdu

**Other language(s):**

**English**

**Listening** C2

**Reading** C1

**Writing** C1

**Spoken production** C1

**Spoken interaction** C1

**German**

**Listening** B1

**Reading** B1

**Writing** B1

**Spoken production** B1

**Spoken interaction** B1